



Bilgi Toplumu, Ekonomik Kalkınma ve Bilgi Yönetimi

Yaşar Tonta

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yunus.hacettepe.edu.tr/~tonta/tonta.html



- Bilgi Topluma giden yol
- Bilgi ve İletişim Teknolojilerinin rolü
- Her yerden bilgiye erişim
- Kişiselleştirme
- Bilgi mimarisi
- Federe arama mekanizmaları



	Güç	Süre (yıl)
Tarım Devrimi	insan	1000
Sanayi Devrimi	makine	300
Bilgi Devrimi	bilgi	100

Toffler (1981)



- Tarım Toplumunda bilgi sorun çözmede yardımcı olan kritik bir “girdi” idi
- Sanayi Toplumunda ticari bir ürün, en temel ekonomik kaynak, “kalkınmanın can damarı” haline gelen bilgi “çözümün” kendisi oldu.
- Bilgi Toplumunda ise yaratılabilecek, iletilebilecek, depolanabilecek sınırsız bilgi giderek bir “sorun” haline gelmeye başladı.

(<http://discovery.cofc.edu/about.html>).



Bilgi Teknolojisi Dünyayı Nasıl Değiştiriyor?

- Eşli, aygıttan aygıta ağ bağlantısı
- Her aygıt ve uygulamada kesin yerel mekan bilgisi de gömülü
- Sıcaklık, hareket, basınç, hızlanma, akış, elektrik kullanımı, ısınım, kimyasal kompozisyonu ölçen algılama aygıtlarının bütünleştirilmesi

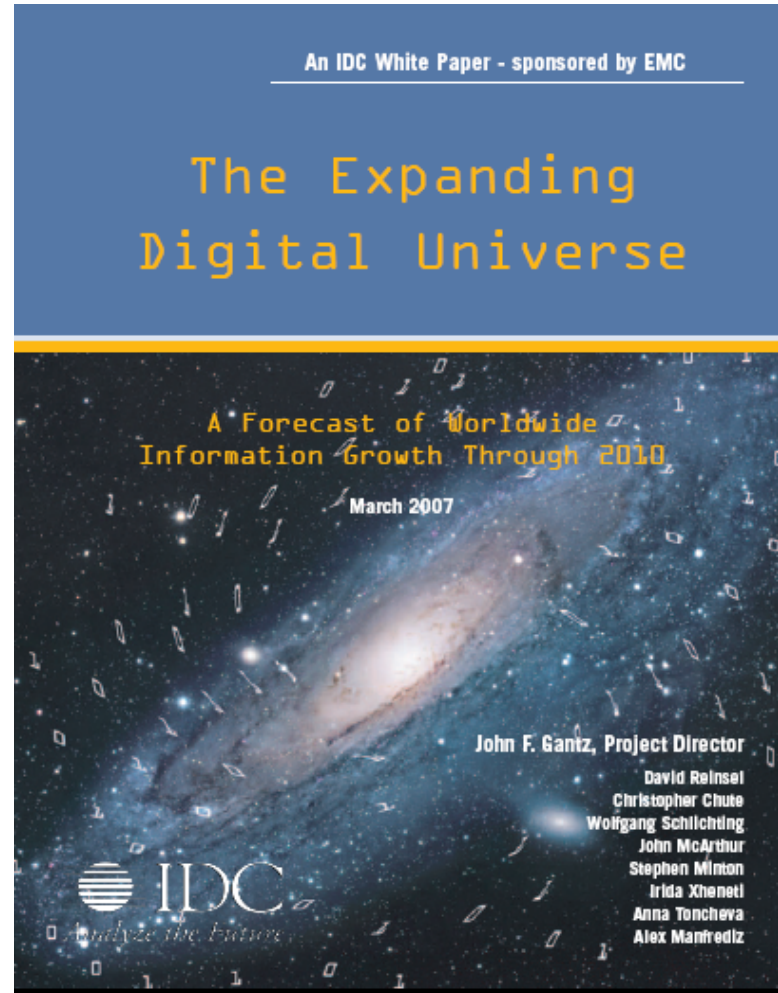
Source: Gage, 2002



- Ekonomi: Kıt kaynakların tahsisi
- “. . . Bilginin yeni rolü tam olarak değerlendirilmeden, zenginliğin rolü konusundaki hiçbir tahmin tutarlı olmayacaktır.”
- “. . . İşleri hızlandırarak zamanla ilişkimizi değiştirdiğimizde, bilginin bir bölümünü kaçınılmaz bir şekilde eskitiyoruz. Dolayısıyla, etrafımızda sürüklediğimiz eski bilgi miktarını artırıyoruz.”



- 5 Exabyte (5×10^{18} byte)
 - 2002'de dünyada üretilen yeni bilgi miktarı (5×10^{18} byte)
- 5 Exabyte'lık bilgi = 37,000 yeni Kongre Kütüphanesi!



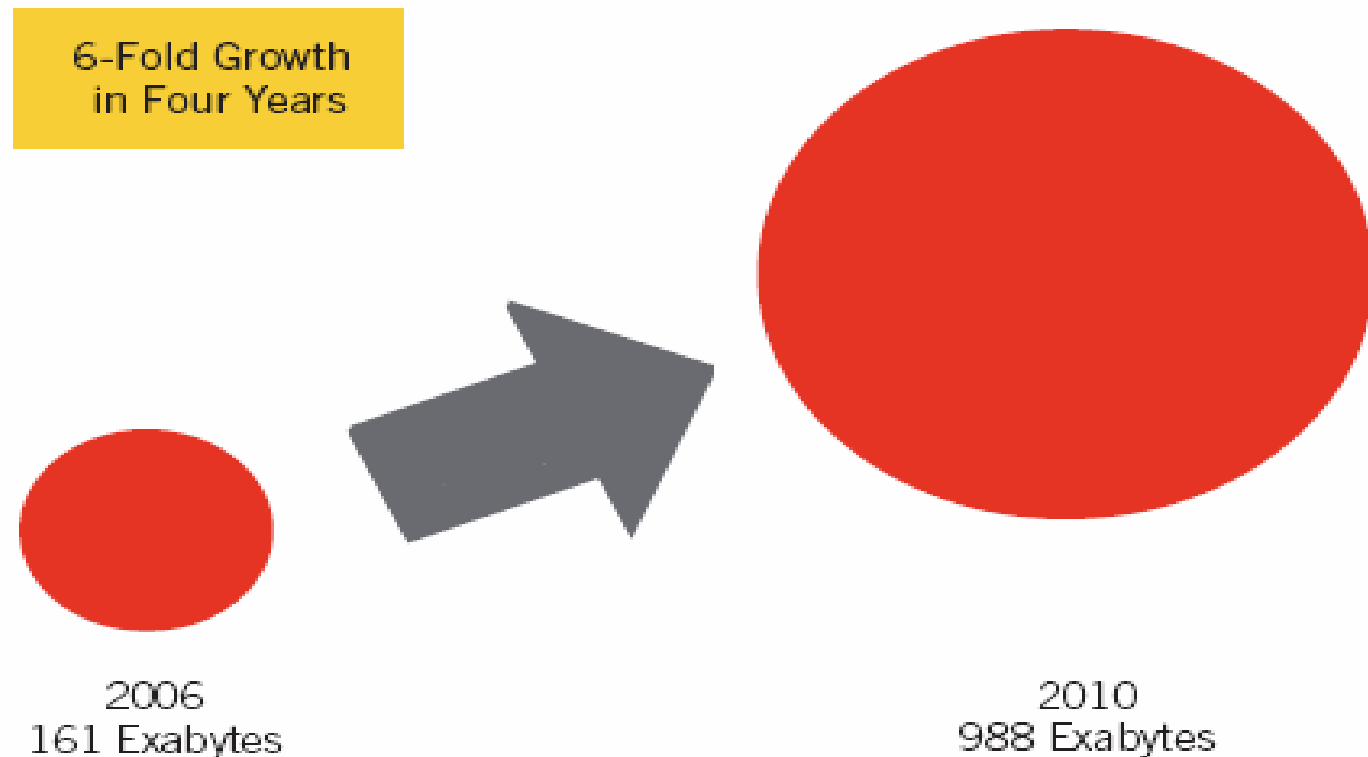
http://www.emc.com/about/destination/digital_universe/pdf/Expanding_Digital_Universe_IDC_WhitePaper_022507.pdf

5 Exabayt → 161 Exabayt



Figure 1

Information Created, Captured and Replicated



Source: IDC, 2007

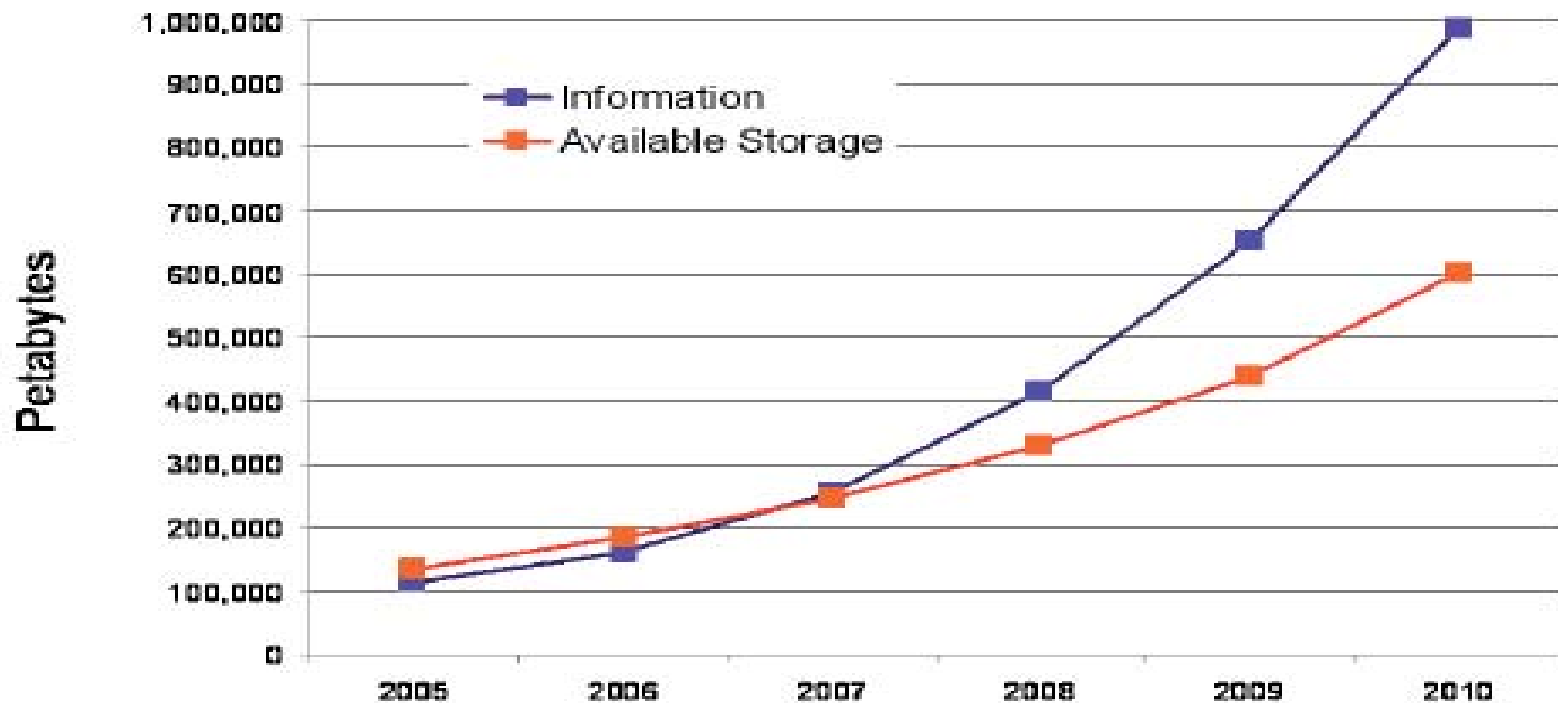
http://www.emc.com/about/destination/digital_universe/pdf/Expanding_Digital_Universe_IDC_WhitePaper_022507.pdf

Depolama Kapasitesi



Figure 2

Information Versus Available Storage



Source: IDC, 2007

http://www.emc.com/about/destination/digital_universe/pdf/Expanding_Digital_Universe_IDC_WhitePaper_022507.pdf

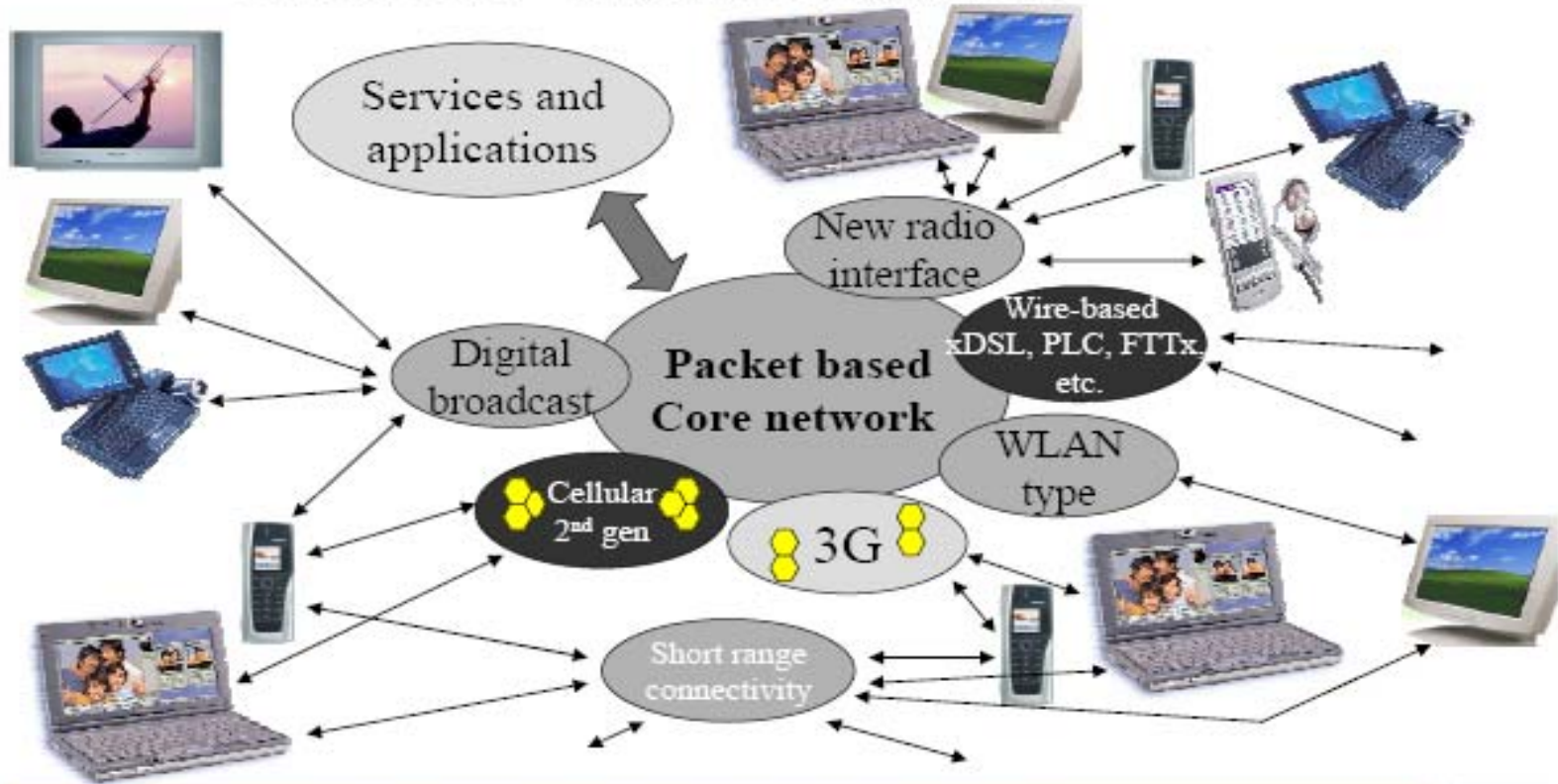


- Teknolojik
 - yoğun bilgi teknolojisi kullanımı
- Toplumsal
 - yaşam kalitesini artırıcı öge bilgi
- Ekonomik
 - bilgi anahtar ekonomik faktör
- Politik
 - bilgi edinme özgürlüğü, artan katılımcılık ve uzlaşma
- Kültürel:
 - bilginin ulusal ve bireysel gelişmede kültürel değeri

Trends in social life



Connected “anytime anywhere”



Workshop on EU legislation in Information Society and Media, 28-29 April 2007, Ankara, Turkey

Page 4



- İnternet: Potansiyel bir eşitlik aracı
- Bağlantılılık
- İçerik üretimi ve dağıtımı
 - Web'in etkin ve etkili kullanımı
 - Web kapsamı
 - Arama becerilerinin eksikliği
 - Dil ve okur yazarlık engelleri
- Mevcut olma - erişilebilir olma arasındaki fark



- Küresel uçurum
 - Sanayileşmiş ülkelerle daha az gelişmiş ülkeler arasındaki farklar
- Toplumsal uçurum
 - Bir ülkedeki insanlar arasındaki eşitsizlikler
- Demokratik uçurum
 - Kamu yaşamına katılmak için sayısal teknolojileri kullananlarla kullanmayanlar arasındaki farklar



- Dünya Bilgi Toplumu Doruk Toplantısı, Cenevre, 10-12 Aralık 2003
 - Herkesin bilgi yaratabildiği, bilgiye erişebildiği, bilgiden yararlanabildiği ve bilgi paylaşabildiği
 - insan odaklı, kapsayıcı ve kalkınma yönelimli Bilgi Toplumu kurma ortak arzusu ve adanmışlığı
- Herkes İçin Bilgi Toplumu'nun ana ilkeleri saptandı
- Bin Yıl Kalkınma amaçlarını gerçekleştirmek için bilgi ve iletişim teknolojilerinin (BİT) kullanılması kararlaştırıldı



- Modern online kamu hizmetleri
- E-devlet
- E-öğrenme
- E-sağlık
- E-iş

Ve bunları geliştirmek için

- Ucuz ve yaygın genişbant erişim
- Güvenli bir bilgi alt yapısı

i2010: Avrupa Bilgi Toplumu



i2010 | EUROPA - Windows Internet Explorer

http://ec.europa.eu/information_society/eeurope/i2010/index_en.htm

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15.8 minutes saved

i2010 | EUROPA

Important legal notice English (en)

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Information Space
Innovation & Investment in R&D
Inclusion

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50th anniversary

News
What is i2010?
i2010 actions
Annual Reports
Mid-Term Review 2008
i2010 High Level Group
Events

i2010 and Lisbon Strategy
Digital Divide
i2010 financing
Inter-institutional
International

i2010 - A European Information Society for growth and employment

i2010 is the European Commission's strategic policy framework laying out broad policy guidelines for the information society and the media in the years up to 2010. It promotes an open and competitive digital economy, research into information and communication technologies, as well as their application to improve social inclusion, public services and quality of life ([more information...](#)).

i2010 Highlights

NEW: i2010 Annual Report 2007

Investment in information and communication technology (ICT) is bearing fruit, finds the Commission's latest annual progress report on the i2010 initiative. Technology is fuelling innovation and productivity, and there are signs of fundamental change in markets and user behaviour, as Europe moves towards a knowledge-based economy.

The report identifies the challenges facing policy makers and sets out key policy issues for the future which will be debated during a review of the i2010 strategy later in 2007. [More information...](#)

Upcoming 14 - 15 May 2007

Conference "Guiding the Roadmap: Convergence, Benefits of broadband for employment and less"

News

[MobilAlarm on the Market as of May 2007](#)
(23/04/07)

Event announcement:
[EU-US eHealth Policy Workshop](#): Brussels, Belgium, 10 May 2007

Event announcement:
[Cross-border eHealth in the Baltic Sea Region](#): Stockholm, Sweden, 21 - 22 May 2007

[More news...](#)

Funding Opportunities

[FP7 Challenge 5: Sustainable and personalised healthcare](#)
(Deadline: 08/05/2007)

Start

Gelen Kutusu - Mi... 4 Animsabı 4 Windows Expl... 9 Internet Exp... Alvin Toffler ve H... 2 Volume Control Microsoft PowerP... Internet 100% 00:40

2007 e-hazırlıklılık endeksi



Economist Intelligence Unit

The Economist

The 2007 e-readiness rankings Raising the bar

A white paper from the Economist Intelligence Unit



Written in co-operation with
The IBM Institute for Business Value



http://a330.g.akamai.net/7/330/25828/20070420205432/graphics.eiu.com/files/ad_pdfs/2007Ereadiness_Ranking_WP.pdf

Türkiye 42. sırada



2007 e-readiness rank (of 69)	2006 rank	Country	2007 e-readiness score (of 10)	2006 score
1	1	Denmark	8.88	9.00
2(tie)	2	US	8.85	8.88
2(tie)	4	Sweden	8.85	8.74
4	10	Hong Kong	8.72	8.36
5	3	Switzerland	8.61	8.81
6	13	Singapore	8.60	8.24
7	5	UK	8.59	8.64
8	6	Netherlands	8.50	8.60
9	8	Australia	8.46	8.50
10	7	Finland	8.43	8.55
11	14	Austria	8.39	8.19
12	11	Norway	8.35	8.35
13	9	Canada	8.30	8.37
14	14	New Zealand	8.19	8.19
15	20	Bermuda	8.15	7.81
16	18	South Korea	8.08	7.90
17	23	Taiwan	8.05	7.51
18	21	Japan	8.01	7.77
19	12	Germany	8.00	8.34
20	17	Belgium	7.90	7.99
21	16	Ireland	7.86	8.09
22	19	France	7.77	7.86
23	22	Israel	7.58	7.59
24	--	Malta*	7.56	--
25	25	Italy	7.45	7.14
26	24	Spain	7.29	7.34
27	26	Portugal	7.14	7.07
28	27	Estonia	6.84	6.71
29	28	Slovenia	6.66	6.43
30	31	Chile	6.47	6.19
31	32	Czech Rep.	6.32	6.14
32	29	Greece	6.31	6.42
33	30	UAE	6.22	6.32
34	32	Hungary	6.16	6.14
35	35	South Africa	6.10	5.74

* New to the annual rankings in 2007.
Source: Economist Intelligence Unit, 2007.

2007 e-readiness rank (of 69)	2006 rank	Country	2007 e-readiness score (of 10)	2006 score
36	37	Malaysia	5.97	5.60
37	39	Latvia	5.88	5.30
38	39	Mexico	5.86	5.30
39	36	Slovakia	5.84	5.65
40	34	Poland	5.80	5.76
41	38	Lithuania	5.78	5.45
42	45	Turkey	5.61	4.77
43	41	Brazil	5.45	5.29
44	42	Argentina	5.40	5.27
45	49	Romania	5.32	4.44
46(tie)	43	Jamaica	5.05	4.67
46(tie)	46	Saudi Arabia	5.05	5.03
48	44	Bulgaria	5.01	4.86
49	47	Thailand	4.91	4.63
50	48	Venezuela	4.89	4.47
51	49	Peru	4.83	4.44
52	54	Jordan	4.77	4.22
53	51	Colombia	4.69	4.25
54(tie)	53	India	4.66	4.04
54(tie)	56	Philippines	4.66	4.41
56	57	China	4.43	4.02
57	52	Russia	4.27	4.14
58	55	Egypt	4.26	4.30
59	58	Ecuador	4.12	3.88
60	61	Ukraine	4.02	3.62
61	59	Sri Lanka	3.93	3.75
62	60	Nigeria	3.92	3.69
63	67	Pakistan	3.79	3.03
64	64	Kazakhstan	3.78	3.22
65	66	Vietnam	3.73	3.12
66	63	Algeria	3.63	3.32
67	62	Indonesia	3.39	3.39
68	68	Azerbaijan	3.26	2.92
69	65	Iran	3.08	3.15



Ölçütlere göre Türkiye'nin puanları

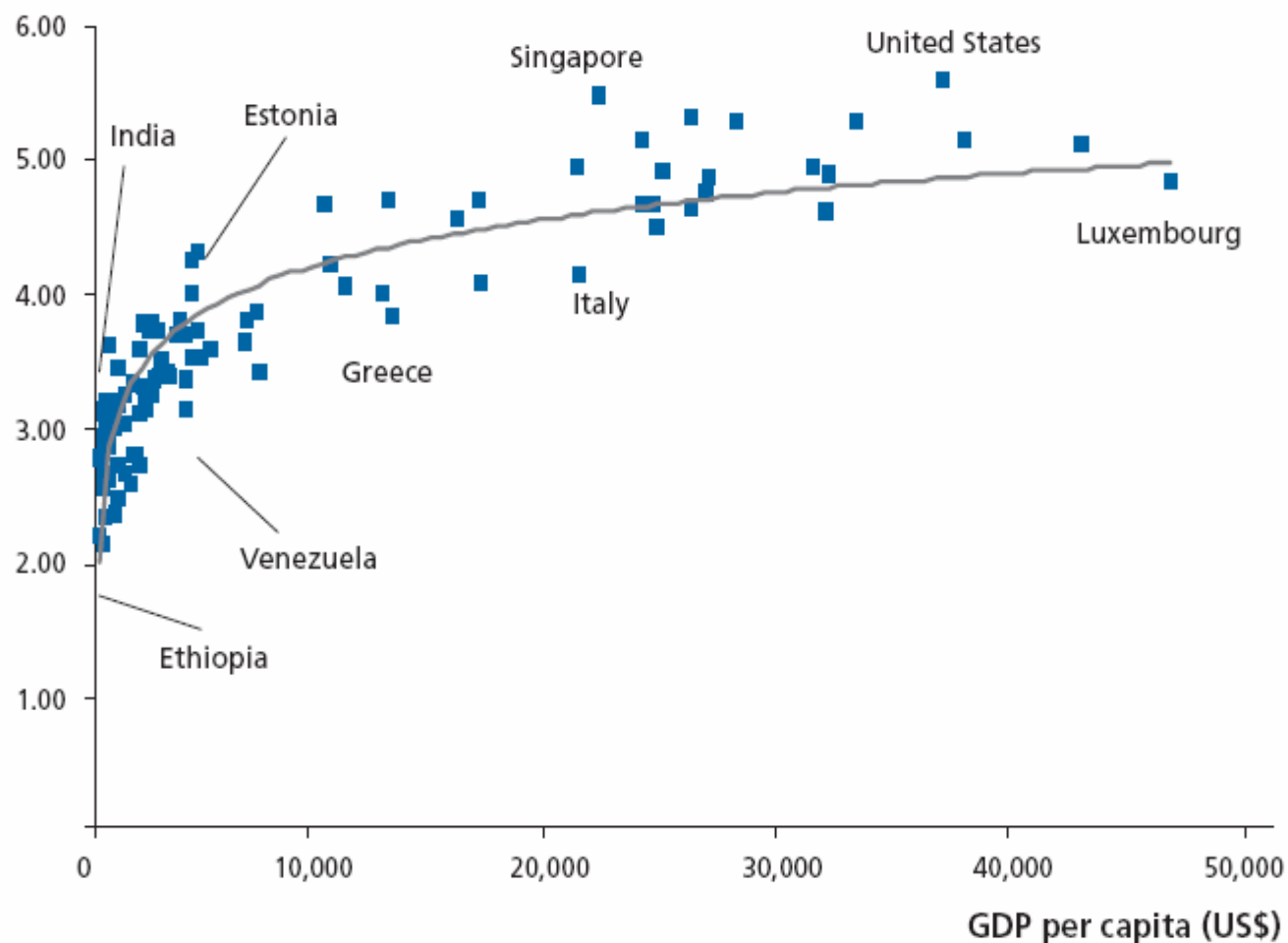


Economist Intelligence Unit e-readiness rankings, 2007

Category scores

	Overall score	Connectivity and technology infrastructure	Business environment	Social and cultural environment	Legal environment	Government policy and vision	Consumer and business adoption
Slovakia	5.84	4.50	7.48	6.00	6.50	4.55	6.35
Poland	5.80	5.10	7.18	5.60	7.05	4.70	5.80
Lithuania	5.78	4.80	6.93	5.60	6.50	4.70	6.35
Turkey	5.61	4.00	6.66	6.00	5.10	5.75	6.15
Brazil	5.45	3.10	6.88	5.60	7.40	6.10	5.20
Argentina	5.40	4.00	6.21	5.60	7.15	5.40	5.20
Romania	5.32	4.20	6.73	5.00	6.45	5.60	4.95
Jamaica	5.05	3.70	6.17	5.20	7.40	5.10	4.40
Saudi Arabia	5.05	3.80	6.37	4.80	4.80	6.05	4.90
Bulgaria	5.01	4.40	6.67	4.80	6.20	4.55	4.45

Figure 3. **Networked Readiness 2003–2004 vs Gross Domestic Product per Capita, Partial Log Regression**



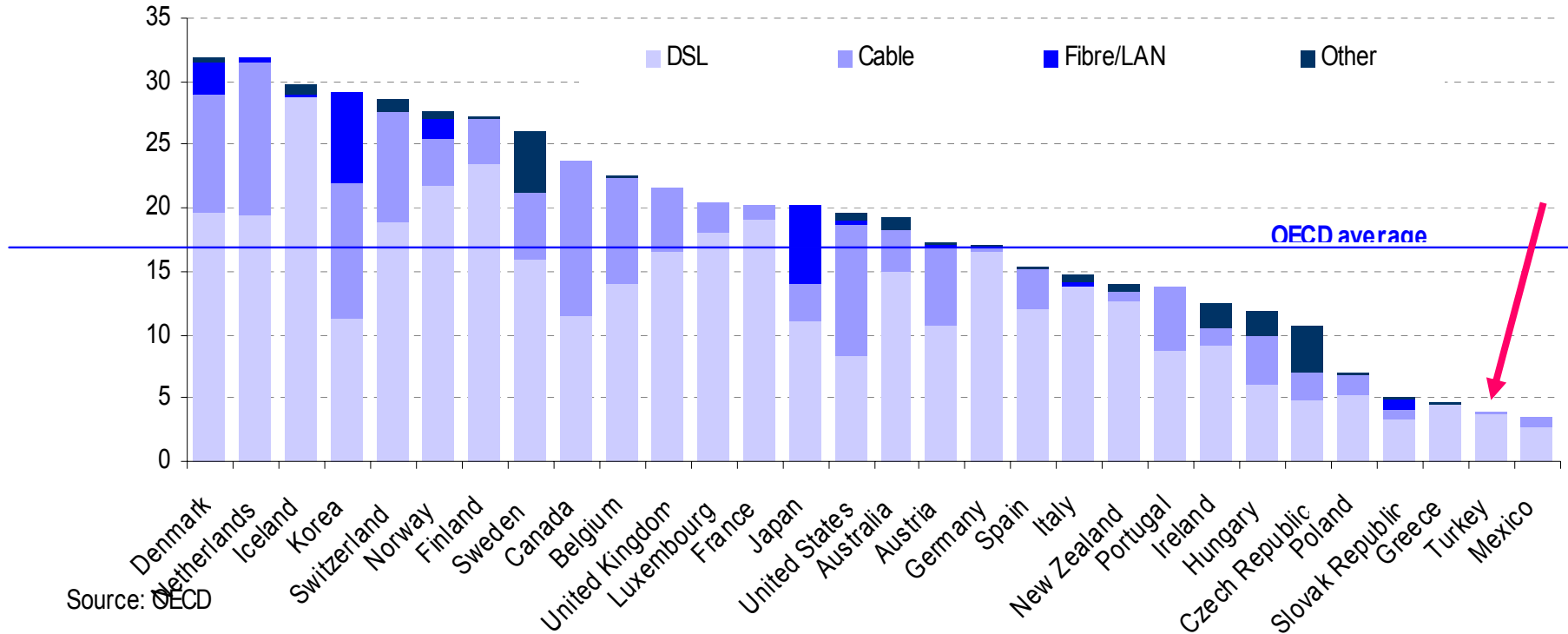
Source: Authors' analysis of data from the World Bank

Source: <http://www.weforum.org>

Geniřbant Abone Yüzdesi



OECD Broadband subscribers per 100 inhabitants, by technology, Dec. 2006

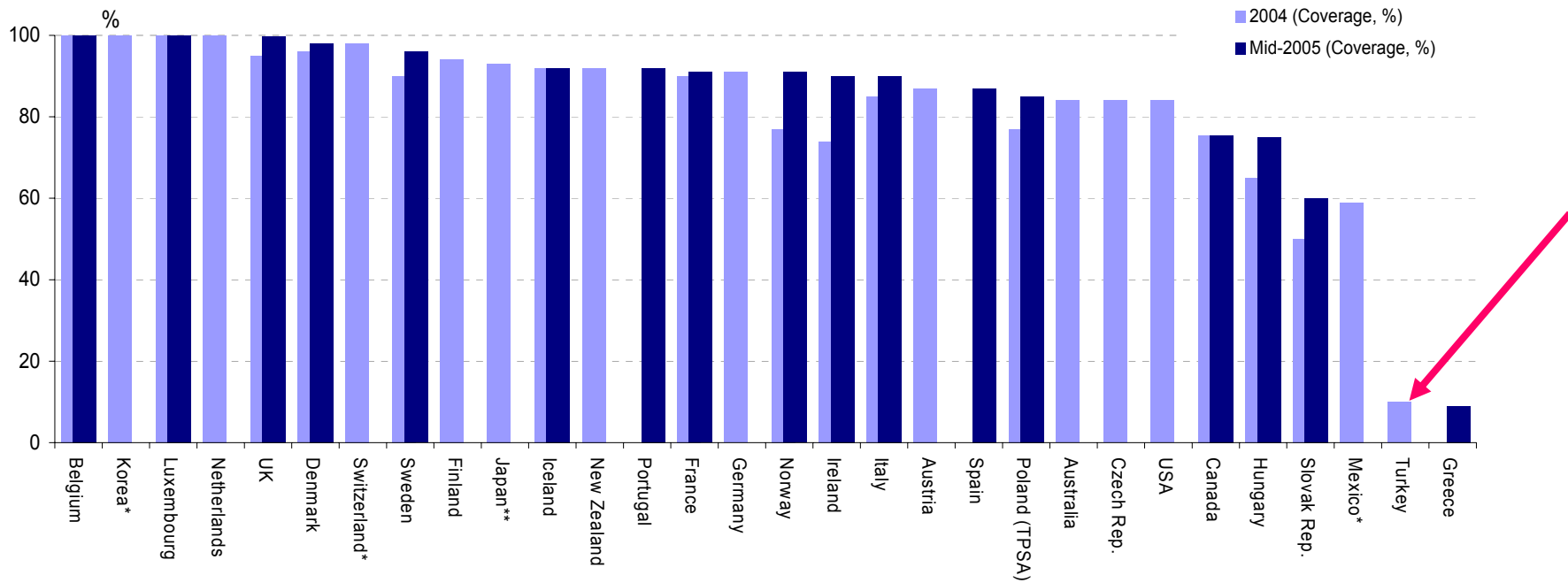


Source: OECD

<http://www.oecd.org/dataoecd/37/39/38449070.xls>

OECD Key ICT indicators

4b. Availability of Digital Subscriber Lines (DSL) in OECD countries



* Data for 2003

** Data for March 2004

Source: OECD Key ICT Indicators [www.oecd.org/sti/ICTindicators]

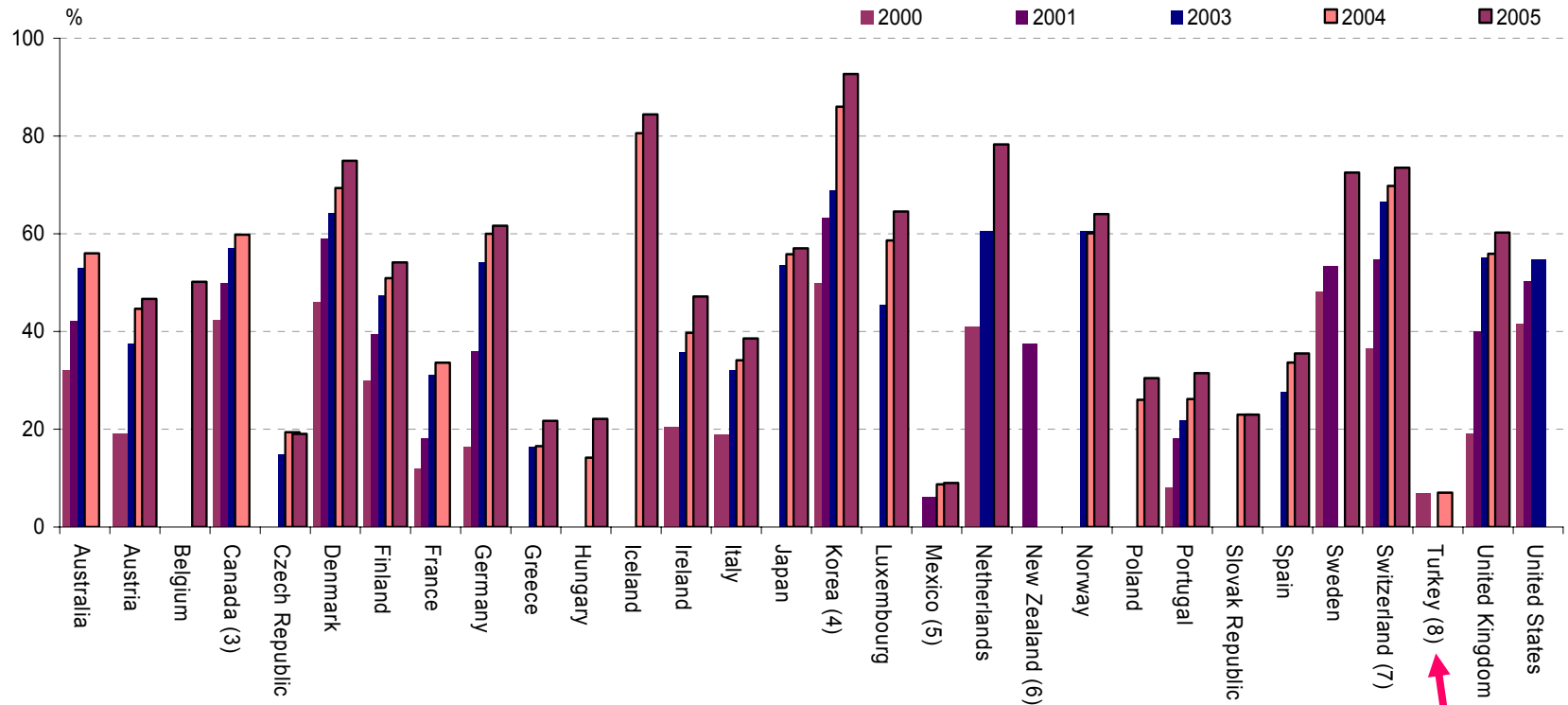
<http://www.oecd.org/dataoecd/19/43/34082819.xls>

Internet'e erişim



OECD Key ICT indicators

6a. Households with access to the Internet (1) 2000-2005 (2), percentage of all households



8. Households in urban areas only

<http://www.oecd.org/dataoecd/19/45/34083073.xls>

Türkiye'de e-dönüşüm



EU LEGISLATION IN INFORMATION SOCIETY AND MEDIA

Current Situation in Turkey

29 March 2007

<http://www.bilgitoplumu.gov.tr/ab/taiox/Current%20Situation%20in%20TURKEY%20-%20March%202007.pdf>



Main objectives of the Strategy

- **Decreasing digital divide**
- **Provision of citizen/user oriented government services**
- **Improving public service provision**
- **Decreasing bureaucratic burden on citizens and enterprises**
- **Developing human resources**
- **Developing ICT sector**
- **Increasing R&D and innovation in ICT**
- **Increasing competitiveness of the country through diffusion of ICT in business**



EU LEGISLATION IN
INFORMATION SOCIETY AND MEDIA
Current Situation in Turkey



Basic Targets of the Strategy for 2010 (1)

	Current	2010
Social transformation:		
- internet user penetration (%)	14	51
- broadband subscriber penetration (%)	2	12.5
- number of public internet access points	na	4,500
Diffusion of ICT to the business sector:		
- enterprises having computer (%)	87	95
- enterprises with broadband access (%)	20	70
Citizen oriented public service provision:		
- electronic public service provision (%)	na	70
- transactions realised electronically (%)	na	33
- provision of 20 basic public services of EU (%)	53	100
- user satisfaction (%)	na	80



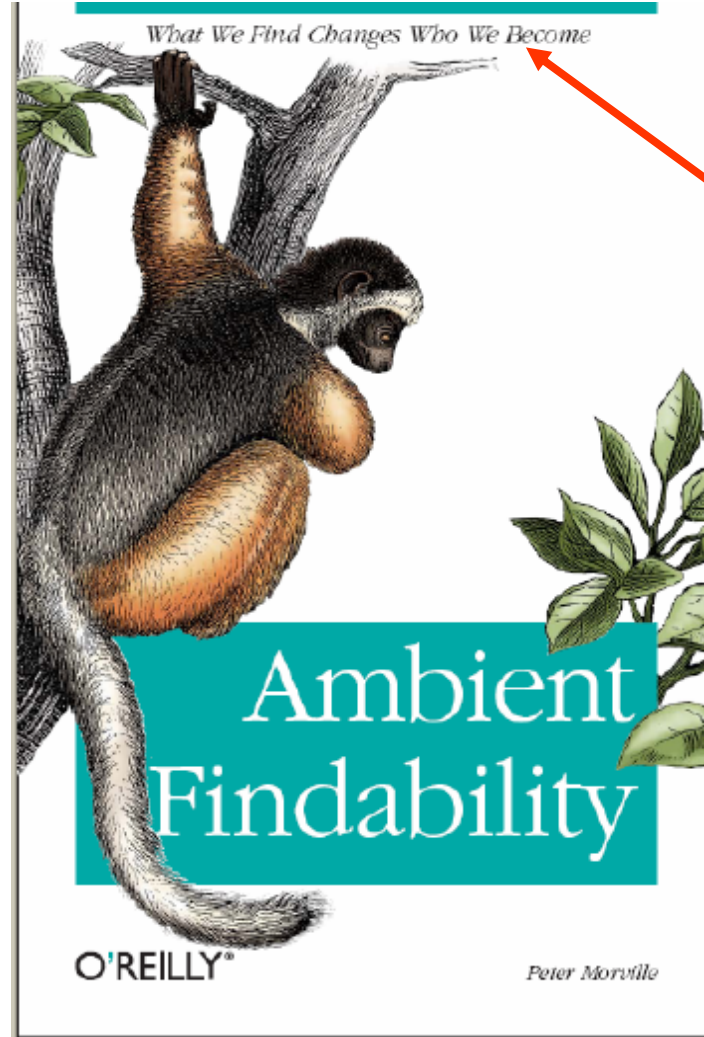
EU LEGISLATION IN
INFORMATION SOCIETY AND MEDIA
Current Situation in Turkey



Basic Targets of the Strategy for 2010 (2)

	Current	2010
Modernization of public management:		
- electronic public procurement (%)	na	90
- savings on current expenditures (%)	na	9
- online back-office services (%)	na	100
Positioning of Turkey in globally competitive IT sector:		
- IT sector in GDP (%)	0.8	2.2
- exports (software and services) (million USD)	80	407
Competitive, widespread and cheaper telecom infrastructure and services:		
- broadband coverage (%)	75	95
- cost of broadband to end user/income per capita (%)	5.4	2
R&D and innovation		
- share of R&D in GDP (%)	0.8	2
- share of ICT R&D in total R&D (%)	na	20
- number of total researchers	28,964	40,000

“Bulduklarımız kim olduğumuzu belirliyor”





- Cep telefonu-el bilgisayar: küresel iletişim ve bilgi ağlarına erişim (kablosuz e-posta, mesajlaşma ve web tarama kolaylıkları)
- Bilgiye erişim için yeni arayüz ve araçların geliştirilmesi
- Dijital ağlar aracılığıyla kişi, yer, ürün ve mülk bilgilerine erişim (s.1-2)



- iMac ve FireWire dijital video kamerası çokluortam kataloglama sistemine dönüşüyor.
- Herhangi bir kitap, film, CD, video oyunu üzerindeki çubuklu kodu okuttuğunuzda web'den toplanan tonlarca bilgiyle birlikte kitabın/CD'nin vs. kapağı dijital rafınızda yerini alıyor.
- Bu seksi, mekanın farkında olan, eşli (peer to peer) kişisel ödünç verme kütüphanesi koleksiyonunuzu arkadaşlarınız ve komşularınızla paylaşmanıza izin verir.
- RFID teknolojisi stok kontrolü kolaylaştırıyor. (s. 3-4)
- Vücudunuza gömülen yongalar kimliğinizi, nerede olduğunuzu ve bankadaki hesabınızda kaç para olduğunu biliyor.

FRBR Örneği



FRBR—FictionFinder - TINET tarafından sağlanan Microsoft Internet Explorer

Adres <http://fictionfinder.oclc.org/WebZ/Authorize> Git Google Search Dosya Bağlantılar

FictionFinder A Project of OCLC Research OCLC Online Computer Library Center Exit

Search **Browse** **Categories**

Search

Search for:

in:

AND

in:

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in:

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in:

Search **Clear**

Basic Index: birds without wings

(1) [Previous Record](#) [Search Results \(4 retrieved\)](#) [Next Record \(3\)](#)

Birds without wings

Author	De Bernières, Louis
Published	Versions: 7, languages: 2
Fiction Categories	Historical fiction Religious fiction War stories
Setting	Gallipoli Peninsula (Turkey) Turkey Turkey — History — Mehmed V, 1909-1918 Turkey — Social conditions — 1288-1918
Subjects	City and town life Fathers and sons Islam — Relations — Christianity Islam — Relations — Christianity — History Soldiers World War, 1914-1918 — Turkey
Special Forms	Large type books.

English (6)

Birds without wings. 2004. De Bernières, Louis.					(978)	
Birds without wings. c2004. De Bernières, Louis.					(172)	Large Type



Grokker - Enterprise Search Management - TINET tarafından sağlanan Microsoft Internet Explorer

Adres http://www.grokker.com/grokker.html?quer: Search Dosya Bağlantılar

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Select one or more sources then Grok. (About the sources)

☒ Yahoo! ☐ ACM Digital Library ☐ Amazon Books

amazoogle

Select a View

Outline

Search within the outline:
by keyword ☐ Exclude

Collapse Outline **Expand View** **Expand Detail**

amazoogle (174)

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- ▶ OCLC Symposium (7)
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Subjects: [Gates, Bill, 1956-](#) (3 other items)
[Microsoft Corporation.](#) (9 other items)
[Computer software industry -- United States](#) (5 other items)

Publisher: H. Holt, 1998.
Published: New York :
Edition: 1st ed.
Notes: Includes bibliographical references (p. [233]-244) and index.
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Found:	77 total 14 journal results 1 preferred web results 62 other web results
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Jul 2003
ON **ARF RINGS** SINAN SERT " OZ Abstract. In this note we summarize Arf's work on **Arf rings** and discuss its relevance in geometry. We...Lipman's article end with a comparison of **Arf rings** to saturated rings. Unfortunately the comparison...
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2. [On the first normalized Hilbert coefficient](#)
Elias, J., *Journal of Pure and Applied Algebra*, Oct 2005
...Hilbert-Samuel polynomial for a Cohen-Macaulay module J. London Math. Soc. 25 1982 449 457 [9] J. Lipman Stable ideals and **Arf rings** Amer. J. Math. 93 1971 649 685 [10] D.G. Northcott A note on the coefficients of the abstract Hilbert function J. London...
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On the first normalized Hilbert coefficient

Dedicated to Prof. Wolmer Vasconcelos on the occasion of his 65th birthday

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Abstract

The main purpose of this paper is to establish upper bounds for the first normalized Hilbert coefficient of an \mathfrak{m} -primary ideal of a Cohen–Macaulay local ring in terms of its multiplicity and number of generators.

MSC: 13D40; 13H15; 13H10

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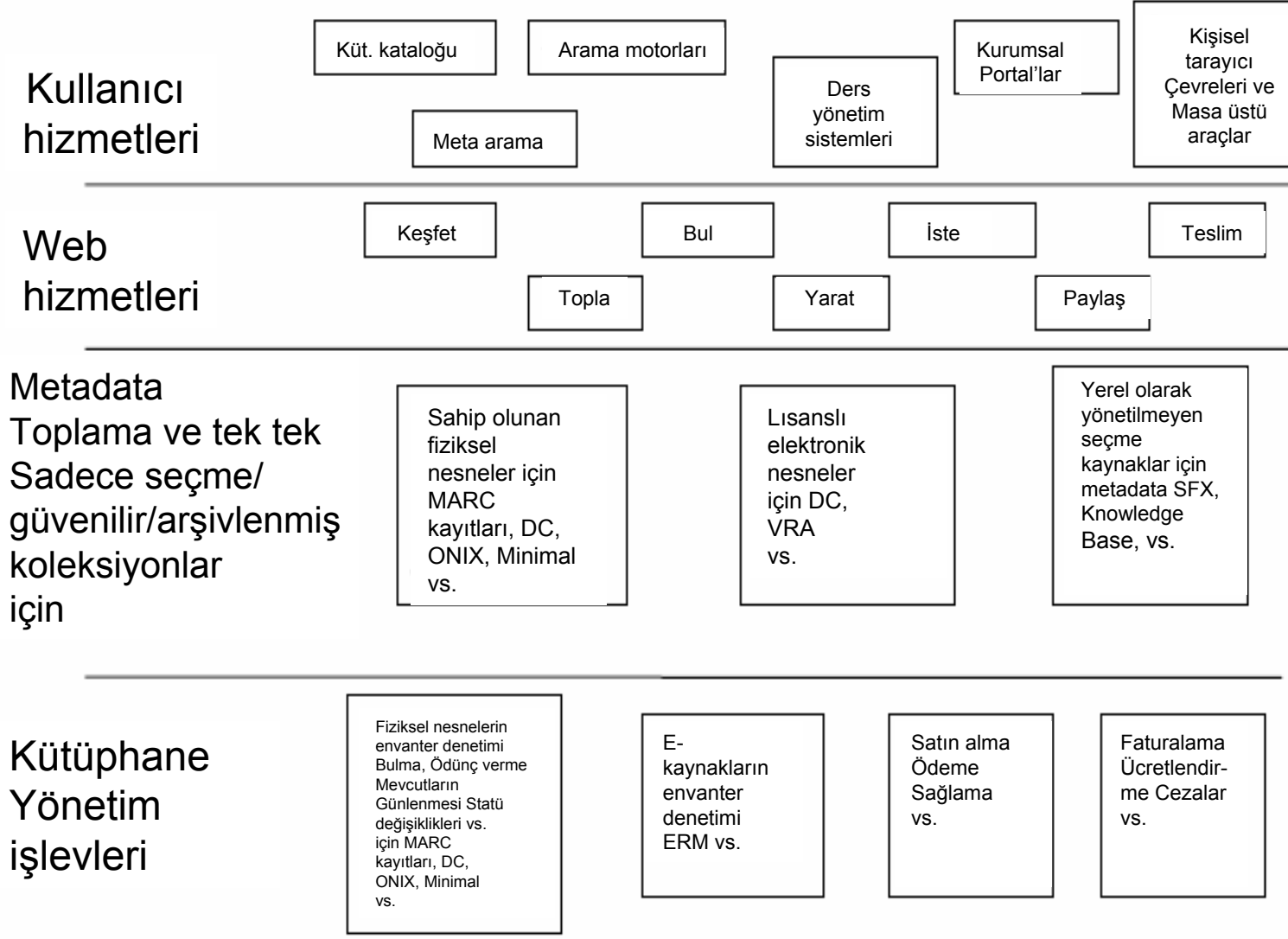
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